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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/614,115
Date Submitted: May 16, 2006		Filing Date	07/03/2003
(use as many sheets as necessary)		First Named Inventor	Vladimir BARANOV
		Group Art Unit	1641
		Examiner Name	Lisa V. Cook
Sheet	1 of 1	Attorney Docket Number	079012-0102

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
L/C	D1		WO 02/054075	A1	MDS INC.	7/11/2002		
L/C	D2		WO 00/36136		PALATIN TECHNOLOGIES INC.	6/22/2000		

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶	
L/C	D3	Earl FRIEDEN et al., "Methods for Labeling Thyroxine With Radioactive Iodine", SCIENCE, April 2, 1948, Vol. 107, pp. 353-354.		
	D4	Vladimir I. BARANOV et al., "A Sensitive and Quantitative Element-Tagged Immunoassay with ICPMS Detection", Analytical Chemistry, Vol. 74, No. 7, April 1, 2002, pp. 1629-1636.		
	D5	John MARSHALL et al., "Atomic Spectrometry Update -- Atomic Emission Spectrometry", Journal of Analytical Atomic Spectrometry, June 1997, Vol. 12, pp. 263R-290R.		
	D6	Paul K. HORAN et al., "Quantitative Single Cell Analysis and Sorting", SCIENCE, Vol. 198, October 1977, pp. 149-157.		
	D7	Alexandra HESS et al., "Transition metal labels on peptide nucleic acid (PNA) monomers", Chem. Commun., 1999, pp. 885-886.		
	D8	Andrea CSAKI et al., "Gold nanoparticles as novel label for DNA diagnostics", EXPERT REVIEW OF MOLECULAR DIAGNOSTICS, vol. 2, no. 2, March 2002, pp. 89-94.		
	D9	Louis S. GREEN et al., "APTAMERS AS REAGENTS FOR HIGH-THROUGHPUT SCREENING", BIOTECHNIQUES, vol. 30, no. 5, May 2001, pp. 1094-1095; 1098, 1100, 1102, 1104, 1106, 1108 & 1110.		
L/C	D10	Rebecca HOLMBERG et al., "Isolation of DNA aptamers that bind Ru(bpy)2phen2+" ABSTRACTS OF PAPERS AMERICAN CHEMICAL SOCIETY, vol. 224, no. 1-2, 2002, page INOR 105; XP002325844.		

Examiner Signature	Lisa V. Cook	Date Considered	10/4/06
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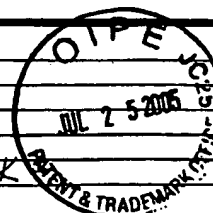
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

Date Submitted: July 25, 2005

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Application Number	10/614,115
Filing Date	07/03/2003
First Named Inventor	Vladimir BARANOV
Group Art Unit	1641
Examiner Name	Unassigned L Cook
Attorney Docket Number	079012-0102



Sheet 1 of 1

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		Number	Kind Code ² (if known)			
LYC	C1	4 022 876		Michael Anbar	5/1977	
	C2	6 242 735		Li et al.	6.2001	
	C3	5 071 775		Snapka et al.	12/1991	
	C4	5 521 289		Hainfeld et al.	5/1996	
	C5	6 428 956		Crooke et al.	5/1998	
	C6	4 205 952		Anbar	5/10/1977	

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LYC	C7		WO 99/45150		Crooke et al.	9/1999		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
LYC	C8	Von Banchet & Heppelmann; Journal of Histochemistry and Cytochemistry, Vol. 43, No. 8, pp. 821-827 (1995).	
	C9	P. SCHRAMMEL, CANAS '95, Colloquium Analytische Atomspektroskopie, Konstanz, Germany, April 2-7, 1995 (1996), Meeting Date 1995, 671-681, Abstract Only.	
	C10	Robert S. HOUK, "Inductively Coupled Argon Plasma as an Ion Source for Mass Spectrometric Determination of Trace Elements", Anal. Chem., 1980, 52, pp. 2283-2289.	
	C11	Neilsen et al., "Laser Ablation Inductively Coupled Plasma-Mass Spectrometry in Combination with Gel Electrophoresis: A New Strategy for Speciation of Metal Binding Serum Proteins," Spectrochimica Acta Part B, Vol. 53, No. 2, February 1998, pp. 339-345	
	C12	Evans et al., "A Method for Characterization of Humic and Fulvic Acids by Gel Electrophoresis Laser Ablation Inductively Coupled Plasma Mass Spectrometry," The Royal Society of Chemistry, 2000, Vol. 15, No. 2, February 2000, pp. 157-161.	
	C13	Zhang et al., "A Novel Combination of Immunoreaction and ICP-MS as a Hyphenated Technique for the Determination of Thyroid-Stimulating Hormone (TSH) in Human Serum," J. Anal. At. Spectrom., Vol. 16, No. 12, December 2001, pp. 1393-1396	
	C14	Baranov et al., "A Sensitive and Quantitative Element-Tagged Immunoassay with ICPMS Detection," Analytical Chemistry, Vol. 74, No. 7, April 1, 2002	
LYC	C15	C. Zhang et al., "Application of the Biological Conjugate between Antibody and Colloid Au Nanoparticles as Analyte to Inductively Coupled Plasma Mass Spectrometry", Analytical Chemistry, pages 3-8, A-D, 2001.	

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Alex. L Cook

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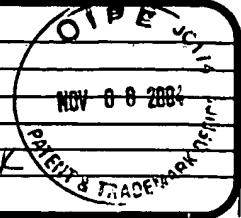
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Sheet	1	of	1		



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LVC	B1	4,205,952		Technion Research & Development Foundation Ltd.	6/3/1980	

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Examiner Signature	<i>Olivia L. Cook</i>	Date Considered	10/4/06
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This collection of information is required by 37 CFR 1.97 and 1.88. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Application Number 10/614,115
 Filing Date 07/03/2003
 First Named Inventor Vladimir BARANOV
 Group Art Unit 1641
 Examiner Name L. Cook
 Attorney Docket Number 079012-0102

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		Number	Kind Code ² (if known)			
L/C	A1	4,313,734		Leuving, J.H.W.	02-02-1982	
	A2	4,411,993		Gillis, S.	10-25-1983	
	A3	4,454,233		Wang, et al.	06-12-1984	
	A4	4,543,439		Frackelton, et al.	09-24-1985	
	A5	4,637,988		Hinshaw, et al.	01-20-1987	
	A6	4,902,614		Wakabayashi, et al.	02-20-1990	
	A7	5,521,289		Hainfeld, et al.	05-28-1996	
	A8	5,907,034		Bosslet, et al.	05-25-1999	
	A9	5,958,783		Josel, et al.	09-28-1999	
L/C	A10	6,140,638		Tanner, et al.	10-31-2000	

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L/C	A11	Baldwin, G.S., Hollande, F., Yang, Z., Karelina, Y., Peterson, A. Strang, R., Fourmy, D., Neumann, G., Shulkes, A. "Biologically active recombinant human progastrin ϵ_{80} contains a tightly bound calcium ion." J. Biol. Chem 276: 7791-7796, 2001.	
L/C	A12	Bandura D.R., Baranov V.I. and Tanner S.D. "Effect of collisional damping and reactions in a dynamic reaction cell on the precision of the isotope ratio measurements." J. Anal. At. Spectrom., 15:921-928, 2000.	
L/C	A13	Baranov V.I., Tanner S.D. "A dynamic reaction cell for inductively coupled plasma mass spectrometry (ICP-DRC-MS). Part I. The rf-field energy contribution in thermodynamics of ion-molecule reactions." J. Anal. At. Spectrom., 14:1133-1142, 1999.	

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STATEMENT BY APPLICANT**

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Application Number	10/614,115
Filing Date	07/03/2003
First Name and Inventor	Vladimir BARANOV
Group Art Unit	1641
Examiner Name	L. Cook
Attorney Docket Number	079012-0102

Sheet 2 of 4

NON PATENT LITERATURE DOCUMENTS

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L/C	A14	Barlett, P. A. et al, "Synthesis of Water-Soluble Undecagold Cluster Compounds." J. Am. Chem. Soc., 100: 5085-5089, 1978.	
	A15	Bartel, et al., "Isolation of new ribozymes from a large pool of random sequences," <i>Science</i> , 261:1411-8, (1993).	
	A16	Binet M.R.B., Ma, R., McLeod, C. and Poole, R.K. 2001 Detection of zinc/cadmium binding proteins in <i>E. coli</i> by gel electrophoresis-laser ablation-inductively coupled plasma-mass spectrometry. Society for Experimental Biology Annual Meeting April 2-6 C1.158 Canterbury, UK	
	A17	Blake, D.A., Blake II, R.C., Khosraviani, M., Pavlov, A.R. "Immunoassays for metal ions." <i>Analytica Chimica Acta</i> 376:13-19, 1998.	
	A18	Bordes, A.L., Schollborn, B., Limoges, B., and Degrand, C. "Simultaneous detection of three drugs labelled by cationic metal complexes at a nafion-loaded carbon paste electrode." <i>Talanta</i> 48:201-208, 1999.	
	A19	Chen, X. Smith, L., Bradbury, E. "Site-specific mass tagging with stable isotopes in proteins for accurate and efficient protein identification." <i>Anal. Chem.</i> 72: 1134-1143., 2000.	
	A20	Cotton, F.A. and Wilkinson, G., 1972, <u>Advanced Inorganic Chemistry: A Comprehensive Text</u> , "Introduction to the Transition Elements," Interscience Publishers, p. 528-554.	
	A21	Darwish I.A. and Blake, D.A. "One-step competitive immunoassay for cadmium ions: development and validation for environmental water samples." <i>Analytical Chemistry</i> 73: 1889-1895, 2001.	
	A22	de Llano, J., Andreu, E., and Knecht, E. "Use of Inductively Coupled Plasma-Mass Spectrometry for the Quantitation of the Binding and Uptake of Colloidal Gold-Low Density Lipoprotein Conjugates by Cultured Cells." <i>Analytical Biochem.</i> 243: 210-217, 1996.	
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	A24	Ellington, et al., "In vitro selection of RNA molecules that bind specific ligands," <i>Nature</i> , 346(6287):818-822 (1992)	
L/C	A25	Ellington, et al., "Selection <i>in vitro</i> of single-stranded DNA molecules that fold into specific ligand-binding structures," <i>Nature</i> , 355(6363):850-852 (1992)	

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Signature**

Olisa. L. Cook

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L/C	A26	Kohler, G and Milstein, C. "Continuous cultures of fused cells secreting antibody of predefined specificity." Nature 256: 495-497, 1975.	
	A27	Korth, C., Stierli, B., Streit, P., Moser, M., Schaller, O., Fischer, R., Schulz-Schaeffer, W., Kretzschmar, H., Raeber, A., Braun, U., Ehrensperger, F., Homemann, S., Glockshuber, R., Riek, R., Billerter, M., Wuthrich, K., and Oesch, B. "Prion (PrP ^{Sc})-specific epitope defined by a monoclonal antibody." Nature, 390(6655), 74-77, 1997.	
	A28	Laffling, A.J., Baird, A., Birkett, C.R., and John, H.A. "A monoclonal antibody that enables specific immunohistological detection of prion protein in bovine spongiform encephalopathy cases." Neurosci. Lett. 300(2), 99-102, 2001.	
	A29	Lorsch, et al., "In vitro selection of RNA aptamers specific for cyanocobalamin," Biochem., 33(4):973-982 (1994).	
	A30	Nagaoka, M. and Maitani, T. "Binding patterns of co-existing aluminium and iron to human serum transferrin studied by HPLC-high resolution ICP-MS". Analyst 135: 1962-1965, 2000.	
	A31	Qiu, J., and Song, J. F. "A rapid polarographic immunoassay based on the anodic current of metal labeling" Anal. Biochem. 240: 13-16, 1996.	
	A32	Robertson, et al., "Selection in vitro of an RNA enzyme that specifically cleaves single-stranded DNA," Nature, 344(6265):467-468 (1990)	
	A33	Segond von Banchet, G., and Heppelmann, B. "Non-radioactive localization of substance P binding sites in rat brain and spinal cord using peptides labeled with 1.4 nm gold particles." J.Histochem.Cytochem. 43: 821-827, 1995.	
	A34	Tanner S.D., Baranov V.I. "A dynamic reaction cell for inductively coupled plasma mass spectrometry (ICP-DRC-MS). Part II. Reduction of interferences produced within the cell." JASMS, 10:1083-1094, 1999..	
	A35	Tanner S.D., Baranov V.I. and Vollkopf U. "A dynamic reaction cell for inductively coupled plasma mass spectrometry (ICP-DRC-MS). Part III. Optimization and analytical performance." J.Anal. At. Spectrom., 15: 1261-1269, 2000.	
L/C	A36	Turek, et al., "Systematic evolution of ligands by exponential enrichment: RNA ligands to bacteriophage T4 DNA polymerase," Science, 249(4968):505-510 (1990)	

Examiner Signature	<i>Lisa L Cook</i>	Date Considered	10/4/06
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L/C	A37	Wagenknecht, T., Berkowitz, J., Grassucci, R., Timmerman, A.P., and Fleischer, S. "Localization of calmodulin binding sites on the ryanodine receptor from skeletal muscle by electron microscopy." Biophys. J. 67: 2286-2295, 1994.	
	A38	Wenzel, T., and Baumeister, W. "Conformational constraints in protein degradation by the 20S proteasome." Nature Structural Biol. 2: 199-204, 1995.	
L/C	A39	Wind, M., Edler, M., Jakubowski, N., Linscheid, M., Wesch, H., Lehmann, W. "Analysis of protein phosphorylation by capillary liquid chromatography coupled to element mass spectrometry with P ³¹ detection and to electrospray mass spectrometry." Anal. Chem. 73: 29-35, 2001.	

Examiner Signature	<i>Lisa. R. Cook</i>	Date Considered	10/4/06
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